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LAWRENCE A LINDER ARCHITECTS INC

SEMI-FINALIST

CHINATOWN COMMUNITY SERVICE FACILITY

中國城社區中心設施

LAWRENCE A LINDER ARCHITECTS INC

INTRODUCTION

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INTRODUCTION IN CHINESE

LAWRENCE A LINDER ARCHITECTS INC	ARCHITECTS
THOMAS RONA ASSOCIATES, INC.	STRUCTURAL ENGINEERS
PANITSAS ASSOCIATES, INC.	MECHANICAL, PLUMBING, AND FIRE PROTECTION
VERNE G. NORMAN ASSOCIATES, INC.	ELECTRICAL ENGINEERS
A.M. FOGERTY & ASSOCIATES, INC.	COST CONTROL
GOLDBERG-ZOINO & ASSOCIATES	GEOTECHNICAL

STATEMENT OF INTEREST

We view the Chinatown Community Center program and its complex urban site as a unique and challenging opportunity to work with an interesting client on a diverse building program for a marvelous site.

The site holds many potential opportunities, some hidden, enfolded under an undulating irregular tide of cars and oil-stained asphalt; some apparent in the diverse collection of adjacent structures. While the empty lot speaks mostly to eye level images, this location in Chinatown has potential long vistas over the low residential building to the east and south. This is a place where the building will be high enough that all of Chinatown will take notice.

The program for the organizations that will occupy the buildings is appropriately complex for the site. It is our overriding concern in developing a conceptual idea for the Chinatown Community Center project that the program achieve a comfortable fit to the site and neighborhood. The planning solution must be one that provides an optimum interaction between building and site, a solution that invites and stimulates the user, that offers a symbol of pride for the Chinese neighborhood. It is in this spirit that we propose the following design strategy for your consideration.

DESIGN STRATEGY

A. SITE LEVEL ONE ORGANIZATION

A sweeping diagonal curved interior street is envisioned that will organize the site and the internal circulation within the building. Two entries; one at the corner of Oak and Ash and one mid-block on Nassau Street provide access to the building and site. The corner entry on Oak Street provides the most direct link to the new housing across the street and to the Health Center and Community Facilities at the Quincy School. The entry on Nassau Street provides people walking south on Harrison with an easy, direct entry point.

Off this curved interior street, on the first and second levels, are all the access points for the different organizations.

At the two major entries to the building are staff offices. These are located to serve as informal "gate keepers" for the general comings and goings to the building. At the Oak Street entry, a receptionist/information desk will be located to provide specific assistance.

C. PROGRAM ORGANIZATION

The seven organizations that occupy the building are located according to a generalized scheme as follows:

- The building block fronting on Oak Street is a classroom/meeting room and office building.
- The tallest block houses the Health Center with the recreational functions for youth stacked above.
- The lower building block on Nassau Street is the Community's library.
- The first level is devoted to young children and has the most direct site access and use.

Specifically the organizations are located as follows within the building:

1. South Cove Community Health Center, Levels 1, 2, 2M, and 3 on the corner of Ash and Nassau Streets: The center has direct access off the buildings' main corridor as well as its own ambulence and delivery court on Ash Street. The center also has its own elevator. Patients will be able to arrive, leave, and circulate within the center with a high degree of privacy.

2. Quincy School Community Council, Level 1: The administrative offices are located on Nassau Street directly off the main entry. All child care classrooms are located on Level 1. The outdoor play space is located between the new and existing buildings and the two play areas are combined. The existing facility is linked by means of a covered walkway to the new building.

3. Chinese American Civic Association, Levels 1, 2, 3, 4: Administrative functions are spread out on each level of the classroom building where full-time staff can oversee and monitor the lobbies and hallways and fill the reception function for the Center's many visitors. Classrooms are located on Levels 2, 3, 4. A large community meeting room is located on Level 2 and overlooks both Oak Street and the internal corridor/street.

4. Chinese Progressive Association, level 2: This group has its own entry and space directly off the main corridor.

PROJECT TEAM

Lawrence A Linder Architects Inc	Architects
Thomas Rona Associates, Inc.	Structural Engineers
Panitsas Associates, Inc.	Mechanical, Plumbing, and Fire Protection
Verne G. Norman Associates, Inc.	Electrical Engineers
A.M. Fogerty & Associates, Inc.	Cost Control
Goldberg-Zoino & Associates	Geotechnical

PROJECT MANAGEMENT OVERVIEW

The principals of the Project Team firms have worked together on projects in Massachusetts for the past three years. The long standing relationships have proven themselves and provide a unity for reaching project design goals.

An intense effort is made during the preconstruction period to review all program and budget considerations and prepare a program critique and conceptual budget based on the initial concept drawings.

At the schematic design phase, options are presented for building components and systems and a schematic phase budget estimate is prepared by the cost consultant member of the team.

The cost monitoring process continues with two additional estimates, one during design development and one during the completion of construction documents. These serve as checks against the overall project budget and the schematic budget and serves to monitor the construction system decisions that are being made by the Architect and Client throughout the project.

The project team has considerable experience with building of this construction size and programmatic complexity. The selection of our team for the Chinatown Community Services Facility would offer the Client the advantage of firm size and project committment. The Architect and other team members will be able to devote a considerable portion of their energy to this project including the personal attention of the principals on an on-going basis during the life of the project.

Our success is attributable to our ability to provide our clients with informed input during the preconstruction process on constructibility, cost, schedule, and materials. We encourage our prospective clients to contact all our references. We believe the quality of our services and the satisfaction of our clients will be evident.

宗旨

我們認爲華人社區中心工程是一個很獨特的、負有挑戰性的項目，我們以爲能爲此和我們的客戶共同合作，是極爲難得的機會。

此區域具有許多潛在良機，這些良機就隱藏在柏油馬路上和川流不息的車陣中，甚至存在於毗鄰的建築群中，一眼可見。就視線而言，這一區域由於面對東南方較矮的住宅區，因此擁有廣濶的視野。此建築物高高聳立在這一區域中，將成爲整個中國城的注意力。

此一綜合大樓的設計，對於使用單位而言是非常適宜的。而我們所關切的是爲華人社區中心設計一個深思熟慮的方案，此一方案的建築物能與附近區域相稱。此設計方案必須爲建築物和建築區設計最佳協調方案，即吸引用戶，激勵用戶，也就是說，這一方案所設計的建築對中國城而言，將是一項驕傲的象徵。秉持此一原則，我們提出以下設計供各位參考。

一、一層結構

大樓內部層面以斜向走廊連接兩個入口；一個在OAK和ASH街的交叉，另一個是在NASSAU街中央的過道上，在OAK街交叉口的入口是同馬路對面的新住宅區直接相通，同時也和設在昆市學校內的醫務中心和社區活動中心相通。NASSAU街的入口可便利南邊的HARRISON街的人通過。

不同的單位均使用一、二層的出入口，二個主要入口處設有門房。在OAK街的入口設有接待處和詢問處，提供詳細的服務，此區域的中心是交通要道，斜向走廊貫通大廳，電梯和通向二樓的樓梯，和外部陽台。大廳和外部陽台提供了二樓內聚集場所。

就佔地而言，幼兒活動場所，包括室內教室和室外遊樂區佔據了第一層的大部份面積，此遊樂場緊鄰ASCC的室外區，採光充足。

華人醫務中心是第一層樓的另一個主要使用者之一，且獨立存在，有自己的出入口和接待區。出入口和接待區均臨兩入口。醫務中心也有電梯和ASH街的救護車入口。

爲大樓服務的送貨口，設在NASSAU街，垃圾處理口也設在這裏。

二、集中建築

此建築物可以概括爲四個主要立方體的結構，其中三個結構，沿著ASH和NASSAU街形成〃L〃形，而第四個結構則在此兩街的交叉口。

每一個立方體結構都是單獨的建築結構單位，由走廊和樓梯連接。這種〃一分爲三〃的建築方式可以將HARRISON街的三、四層住宅區提高到醫務中心的十層高度。

健身房設在此建築物的頂層，頂層的屋頂是由兩根橫樑相銜而成，場地中央可設籃球場，此種屋頂設計可使白天的室內設計採光充足，而夜晚則燈火輝煌。

三、建築結構

使用此建築的七個單位，可做如下安排：

・面對OAK街的樓面是教室、會議室和辦公室。
・最高層樓面是醫務中心和青年娛樂場。
・在NASSAU街較低層的樓面，是社區圖書館。
・第一層是歸兒童使用，有直接入口。

具體而言

1、華人醫務中心是在ASH和NASSAU街交叉口那部份樓面是1,2,2M和3層。醫務中心有直接出入口，也有救護車停車場，亦有自用電梯，以便利病患使用。

2、昆市社區學校委員會設在第一層，行政辦公室在NASSAU街，緊鄰主要入口。所有的幼兒中心教室設在第一層，室外遊樂場設在新舊建築物之間，兩個遊樂場相通；而已有的設施可由騎樓和新建築相連。

3、華美福利會座落在1,2,3,4層，教室樓面的每一層都有行政機構，全職職員可監督大廳和走廊，並且負責接待工作。教室在2、3、4層，社區大會議室在第2層，既可看到OAK街，又可看到內部走廊。

4、華人前進會在第2層，有自己的入口，緊鄰主要走廊。

5、亞美諮詢講席會在第3層，設在大圖書館之內。

6、華人青年聯誼會在第4層，有自己的大廳和接待區，緊鄰主要電梯，教室區和圖書館是與華美福利會共用。

7、華人青年會在5,6,7層，此三層樓均用第5層的入口和接待處，健身房在第7層，既簡便又經濟。

四、兒童和〃神秘屋〃

兒童就是未來，他們的教育和身心健康關係到社區發展的成功或失敗，爲此，我們提出第一層樓是供兒童使用，及如何安排教室和門窗。

〃神秘屋〃可帶領孩子們跨越到成人的世界，房子本身雖是遊樂區，但建造得更爲講究，以樓梯延伸遊樂場上方的空間到二樓，此一幻想之地使此區成爲獨一無二的地方。

設計組	
建築師	勞倫斯・林德建築設計公司
結構工程師	托馬斯・姚那聯合公司
機械、管道、防火	潘尼特薩斯聯合公司
電路工程師	弗恩・諾門聯合公司
成本控制	A．M．弗格梯聯合公司
地基工藝	高爾伯格一周尼聯合公司

工程管理綜觀

擔任上述主要設計施工任務的公司在過去三年裡曾共同合作參與麻省工程項目。長期的合作關係促使我們團結一致，更好的達到工程設計目標。

施工前，我們盡最大力量審理工程項目和預算方案，基於草案，制定工程方案和預算。

就預算而言，不同建築部份和系統有不同預算選擇，並且設計組成本控制顧問，對此提出成本估價。

成本會隨著設計階段和施工階段而有所增加。由建築師和客戶所擬訂的各項預算會隨上述兩項階段而有所變動。此設計小組在結構實體大小和綜合建築方面，有相當的經驗，由於本公司規模較小，建築師和其他設計小組成員將全力以赴，包括在施工期間親臨現場處理主要事務，因此，選擇我們此一小組可有利於客戶。

我們的成功歸因於我們有能力在施工間即提供所有建築、成本、工期、材料的有效資訊。我們歡迎我們未來的客戶同過去的客戶聯繫。我們相信我們的服務品質和客戶的滿意度都是顯而易見的。

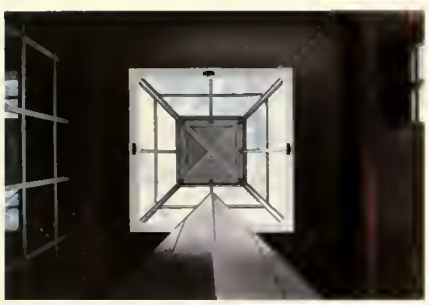
LAWRENCE A LINDER ARCHITECTS INC

LAWRENCE A LINDER ARCHITECTS INC

Designing buildings is our primary focus

Our interest is in creating environments that contribute to one's awareness, that are an expression of the need to make something one's own. We relish the uniqueness of each building effort. We always strive to provide our clients with a building that transcends its practical criteria. In solving the many pragmatic issues that shape a building, the act of building can be made evident, can be celebrated. This is accomplished by details, by choices of materials, by how light and air penetrate space, and by how the built evidence reveals the mysteries of construction.

We act as mediators for all the conflicting voices that would speak to define the building, but inevitably, each building becomes its own spokesman, speaking for itself and for our success in making its message clear.



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The following projects represent the firm's experience and Linder's experience as a principal with former associations.

Lawrence A. Linder, A.I.A., is the managing principal of the firm (formerly Manning Linder + Associates). The firm was originally founded in 1984 to continue the work in New England of the WZMH Group. Mr. Linder was the principal in charge of design for WZMH Boston and worked on the Marketplace Center and Four Seasons projects. His prior experience includes work as an associate with Charles W. Moore, F.A.I.A., where he worked primarily on multi-family residential projects and in partnership with Donlyn Lyndon, F.A.I.A., former dean of the MIT School of Architecture. In his previous practice, Mr. Linder designed single family homes, exhibits, commercial renovations, and retail stores.

During two decades of work in New England, we have become proficient in many building types.

We have worked for the public sector on firehouses, multi-family housing, and street and park improvements; for universities on new dormitories, libraries, and on renovations; for private clients on houses, house renovations, stores, restaurants, banks, and office interiors; and for developers on high-rise and other office buildings, on hotels, hotel renovations, and multi-family housing.

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In the process of designing buildings, we have composed groups of structures and planned small communities. In the process of shaping the inner volumes of a building, we have become familiar with the details of furniture and finishes. In order to expedite our projects, we have undertaken the construction of exhibits, light fixtures and houses.

Mixed-Use Buildings

6 Marketplace Center
Boston, MA
Retail and Office

Woburn Foreign Motors
Woburn, MA
Auto Dealership
and Hotel

Four Seasons Hotel
Boston, MA
Hotel and
Private Residences

Office Buildings

11 144 Gould Street
Needham, MA
New Construction,
48,000 s.f.

9 65 South Street
Hopkinton, MA
New and Renovated,
40,000 s.f.

5 Three Burlington Woods
Burlington, MA
New Construction,
150,000 s.f.

Exchange Place
Boston, MA
New and Renovated,
1 2m s.f.

Marketplace Center
Boston, MA
New Construction,
400,000 s.f.

955 Massachusetts
Avenue
Cambridge, MA
Renovations

Hotels

2 Bay Pointe Inn &
Conference Center
Wareham, MA
100 Rooms,
New Construction

4 Burlington Marriott
Burlington, MA
420 Rooms,
New Construction

Four Seasons Hotel
Boston, MA
230 Rooms,
New Construction

Sheraton Hotel
Boston, MA
Renovations

Newburyport Inn &
Conference Center
Newburyport, MA
85 Rooms, Project

11

12

Urban Design and Planning

Marketplace Center
Boston, MA
Mixed Use

Nuran, Iran
New Town tor 100,000

Urban Renewal Plan
Northampton, MA
Downtown Revitalization

Driftway, Scituate
Hotel, Condominiums,
and Golf Course

3 Bay Pointe
Wareham, MA
Hotel, Condominiums,
and Golf Course

Five Maryland Towns
Study Co-Authored with
Donlyn Lyndon

Interiors

9 Mugar Finard Corporate
Offices
Burlington, MA
10,000 s.f.

10 Home Owners Federal
Savings & Loan
Burlington, MA
Corporate Headquarters
and Branch Bank
150,000 s.f.

Crescent Park Clubhouse
Woburn, MA
12,000 s.f

Sheraton Hotel
Boston, MA
Ballroom, Conference
Center, and Exhibit Space

Bay Pointe Inn &
Conference Center
Wareham, MA
100 Guest Rooms,
Restaurant, and Meeting
Rooms

AIG Law Offices
Boston, MA
10,000 s.f.

Lexington Insurance
Offices
Boston, MA
45,000 s.f.

Juliana's Sound Services
Boston, MA
4,000 s.f

E.F. Hutton Offices
Boston, MA
40,000 s.f

Single Family Residential

11 Linder Baptie House
Cambridge, MA

Keaveny Addition
Newton, MA

Stayn Addition &
Renovation
Lexington, MA

Perez Addition
Lexington, MA

Linder House
Chestnut Hill, MA

Love House
Auburn, MA

Lewis House
Evanston, IL

Fessel House
Guilford, CT

Gordon House
Charlottesville, VA

Multi-Family Residential

7 Crescent Park
Woburn, MA
264 Units, Mid-Rise

Bay Pointe Village
Wareham, MA
67 Units, Low-Rise

Wedgewood Heights
Gardner, MA
350 Units, Low-Rise

Maplewood Terrace
Middletown, CT
50 Units, Low-Rise

Whitman Village
Huntington, NY
275 Units, Low-Rise

Haystack Mountain
Condominiums
Haystack, VT
60 Units, Low-Rise

Design and Exhibit

Conference Room Table
Finard Offices

Custom Light Fixture
Homer Owners Bank

Solar Photovoltaic Exhibit
Lincoln, NE

First Night Facade
Boston

Institutional

Pembroke Dormitories
Brown University
240 Rooms and Retail

Staff Lodging
University of
Connecticut
50 Rooms

Wellesley Darkrooms
Wellesley College
Renovations

Visual Documents Library
MIT
Renovation

Audubon Headquarters
Lincoln, MA
Master Plan

Ellsworth Avenue
Firestation
New Haven, CT
Three Bay Station

Women's City Club
Boston, MA
Master Plan and
Renovation for Athletic
Complex

Retail Restaurants

Arcade
Marketplace Center
Boston

13 Cookie Jar
Boston

Au Bon Pain Stores
Boston, Houston
New York
New Hampshire, Maine

Wendy's Restaurant
Boston

Yoghurt Shop
Faneuil Hall Marketplace
Boston

Brown Derby Deli
Faneuil Hall Marketplace
Boston

Chipyard
Faneuil Hall Marketplace
Boston

Restaurant at the
Clubhouse
Bay Pointe Golf Course
Wareham, MA

Restaurant at the Bay
Pointe Inn & Conference
Center
Wareham, MA

Lawrence A. Linder was born in South Bend, Indiana, in 1944. He is a graduate of the Pennsylvania State University and also studied at the Architectural Association School of Architecture in London. He has been practicing architecture in New England for 22 years

THOMAS RONA ASSOCIATES, INC.

BACKGROUND INFORMATION

THOMAS RONA ASSOCIATES, INC. is a Consulting Engineering firm specializing in the structural design of buildings. The firm was founded in 1967 and operated under this name until 1976, when it merged into Brown, Rona, Inc. In 1985, the original name of Thomas Rona Associates, Inc. was reestablished.

As Structural Engineer for new structures as well as the rehabilitation and adaptive reuse of old buildings, we work closely with architects, public agencies, private owners, and developers from the inception of a project by developing and evaluating alternate structural systems and preparing detailed preliminary drawings and outline specifications.

After the technical and financial feasibility of a project is firmly established, we prepare detailed, structural working drawings and specifications, i.e., complete Construction Documents in close coordination with the members of the project team.

On many of our projects, construction starts well in advance of the completion of the final Construction Documents. On these fast-track projects we work closely with the construction manager and specialized sub-contractors to insure that construction schedules are kept and budgets are maintained.

During Construction Phase, we evaluate alternate proposals and details to resolve field or purchasing problems, review the structural shop drawings, and inspect the work as necessary to assure that the intent of the structural design is being properly executed in the field.

Our interest in evaluating the capacity, performance, and future behavior of existing structural systems has involved us in the investigation of the deterioration and partial failure of structural elements, and the subsequent report and recommendation for the preservation and future serviceability of same.

THE STAFF

Our technical staff of senior and junior engineers hold B.S. and M.S. degrees in Civil and Structural Engineering. Their design experience ranges from three years to over twenty years. The senior engineer in charge of the design of major projects is assisted by junior engineers and drafters in the detailed preparation of the working drawings. During Construction Phase, both senior and junior engineers are engaged in field supervision and shop drawing reviews to assure that design intents are being properly carried out.

The drafters and technicians are highly qualified and have many years of experience. Our senior drafters are capable of overseeing an entire project of the most complex nature. In addition to the drafting and detailing, scheduling, coordination, and contact with their architectural counterparts are among their responsibilities.

OPERATIONS

The principal and associates of the firm collaborate on the conceptual design of all major projects in order to develop and evaluate the full range of useful structural solutions. Thereafter, the principal or associate becomes the senior engineer of the project and works closely with the architect and other members of the design team through the Construction Document and Construction Management Phases. In this way, we maintain close control, continuity, and coordination between the architectural and structural designs which is essential to a successful building project.

We utilize a state-of-the-art, in-house computer system to rigorously analyze our structures for all expected loading conditions and to optimize the design of individual members as well as of seismic/wind resisting moment and braced frames.

PRINCIPAL AND SENIOR ASSOCIATES

Thomas Rona, Principal, founded the firm in 1967. His experience as a design engineer in the United States started in 1956, when he emigrated from Hungary. Since that time, he has been associated with a number of leading engineering firms in Pittsburgh, PA and Boston, MA. As Structural Engineer, he has been responsible for the design of many major structures such as institutional, commercial, and residential buildings, and parking garages in concrete, precast/prestressed concrete, as well as steel construction. Majoring in structures, Thomas Rona received his Civil Engineering Degree from the Technical University of Budapest, Hungary. From 1950 to 1956, he worked for a leading engineering firm in Budapest, and was in charge of several major, industrial structures using cast-in-place and precast concrete. Thomas Rona is a registered engineer in numerous states, including Massachusetts and is a member of ACI, PCI, and AISC.

Roger Hobeika, Chief Engineer and Junior Partner, has been affiliated with Thomas Rona Associates, Inc. since 1972. He was born in Beirut, Lebanon and educated in Paris, France, where he received his Civil Engineering Degree from L'Ecole Speciale des Travaux Publics. He received his M.A. in Structural Engineering from Northeastern University Graduate School of Engineering. Mr. Hobeika has over twenty years of professional experience in the United States and Middle East, during which he was responsible for the design of many major structures in precast/prestressed concrete, structural steel, and wood construction. Mr. Hobeika is a member of ACI and AISC, and is a registered engineer in Massachusetts and Rhode Island.

Karl Anderson, Chief Draftsman, Office Manager, and Junior Partner, has long-standing experience in the field of technical drafting and management. Mr. Anderson attended Northeastern University, and has worked closely with Mr. Rona since joining Thomas Rona Associates in 1967. In charge of scheduling, production, and drafting, he collaborates with the client, assuring that deadlines are met. Mr. Anderson also reviews the completed structural drawings of each project prior to their submittal to the client.

SPECIALTIES

THOMAS RONA ASSOCIATES, INC. has been the Structural Engineer for a wide variety of buildings, such as parking garages, large residential, commercial, and institutional projects including educational buildings, medical facilities, libraries, banks, office buildings, high, mid and low-rise apartment structures and industrial buildings. Depending on comparative cost, availability, and construction schedule, we have successfully designed these structures using wood, light gauge metal, structural steel, cast-in-place and precast concrete, and load bearing masonry. A number of our projects in urban areas have been on difficult sites requiring special foundation techniques, such as engineered fill, floating foundations, and a variety of piling systems.

In all of our design projects, we work closely with the architect to ensure the proper selection, specification, and detailing of all building components as well as preparing the usual structural plans, details, and specifications. We have many years of practical experience gained through investigation of failures and in developing repair schemes for the critical structural elements, the result of which is applied to our new building projects.

We have extensive experience in large scale restoration, remodeling, and adaptive reuse of existing buildings. Before proceeding with plans and specifications for these projects, we first evaluate the condition and capacity of the existing structure to assist in determining the feasibility of the proposed work.

Our firm also specializes in the specification and field monitoring of repair procedures and materials for the rehabilitation of building facades and the resurfacing and/or repair of failed concrete floor surfaces, particularly those of parking garages.

PANITSAS ASSOCIATES, INC.

PANITSAS ASSOCIATES, INC. was established in 1977 by John Panitsas, P.E. Until the establishment of the firm, John Panitsas served with engineering firms for more than fifteen years. The firm today includes three project engineers, two designers, three drafters, and two supporting staff members. The firm maintains a small but more efficient staff with each member capable of working in all of the mechanical engineering aspects (HVAC, Plumbing, and Fire Protection).

Panitsas Associates, Inc. experience since 1977 extends to over 125 residential buildings (approximately 18,000 apartments), over 50 office buildings (3,500,000 square feet) and approximately 100 buildings such as schools, hotels, country clubs, municipal buildings, dining facilities, and medical facilities.

Services provided by Panitsas Associates, Inc. include coordination meetings, schematic drawings, design development drawings and preparation of construction documents. Assistance during the bidding stage and advice in evaluation to determine the qualified bidder(s) is also provided.

Construction administration services include review of equipment submittals, periodic visits to observe progress and quality of work, final review, and punch list.

JOHN PANITSAS, P.E.
Principal

Over 25 years experience.
President of Consulting Firm for 12 years.

Professional Engineer registered in Massachusetts, New Hampshire, and Vermont.

Professional Organizations:

- Massachusetts State Board of Building Standards
- American Society of Heating, Refrigeration, and Air Conditioning Engineers
- American Society of Plumbing Engineers
- Boston Society of Architects
- Building Officials and Code Administration
- National Fire Protection Association

Publications:

- "The Typical Bathroom", a design modification study of the typical bathroom for housing projects, published by the Plumbing Engineer Magazine. Articles related to mechanical systems design and installation have been published in real estate journals.

PROFESSIONAL EXPERIENCE

John Panitsas specializes in the design and project management of heating, ventilating, air conditioning, and plumbing systems for a wide variety of commercial, industrial, and residential projects.

In 1968, after serving with engineering firms in Greece, Norway, and Canada for ten years, he joined Galson & Galson, Consulting Engineers, New York, where he assumed the position of project engineer in 1969 with responsibility for HVAC and plumbing design. In 1972 he transferred to the Boston office with responsibility for design and field supervision for many of the firm's projects in the Boston area. From 1974 until the establishment of his own firm in 1977, John Panitsas was associated with Barstow engineering, Inc., a consulting engineering firm in boston.

John Panitsas was educated as a mechanical engineer at the Technical University of Graz in Austria and attended additional courses at technological institutes in Greece (architecture) and Canada (specialization in HVAC).

POSITIONS HELD FROM 1958 TO PRESENT

Panitsas Associates, Inc., Boston, MA - President/Founder
Barstow Engineering, Boston, MA - Partner
Galson & Galson, Syracuse, NY - Project Engineer
Atomic Energy of Canada - Design Engineer
Jan Bille A/S, Oslow, Norway - Project Engineer
D. Stavropoulos, Athens, Greece - Design Engineer
Greek Army, Technical Corps - Lieutenant

S. NARAYAN SHARMA, P.E.
Senior Project Engineer

Bachelor of Science in Mechanical Engineering, Indian Institute of Technology, Kharagpur, India - 1971

Masters in Business Administration
Xavier Labor Relations Institute, Jamshedpur, India - 1976

Professional Engineer registered in the states of Massachusetts and New Hampshire.

Professional Organizations: ASHRAE, ASME

PROFESSIONAL EXPERIENCE

1989 - Present Panitsas Associates, Inc. - Boston, MA

Senior Project Engineer: Engineering and design of heating, ventilating, air conditioning, fire protection, and plumbing systems for new construction and renovation of residential, commercial, and institutional projects including high-rise building. Preparation of contract documents and construction administration.

1988 - 1989 Keyes Associates Waltham, MA

Senior Project Engineer: Design and engineering of HVAC systems for biochemical research buildings, commercial and institutional buildings, site supervision and project coordination.

1985 - 1988 Seppala & Aho Construction Company - New Ipswich, NH

Principal Mechanical Engineer: Engineering and supervision of HVAC and plumbing projects for design/build company dealing with commercial, industrial and institutional projects.

1984 - 1985	General Dynamics Shipbuilding Co. - Quincy, MA
	Senior HVAC Design Engineer: Design of HVAC systems for ships.
1979 - 1984	M. N. Dastur & Co. - India (Dastur Engineering International - NY)
	Senior Project Engineer: Design of piping and HVAC systems for industrial plants and power houses.
1972 - 1979	Tata Iron & Steel Co. - Jamshedpur, India
	Project Engineer/Utilities: Designed piping and HVAC systems for steel plant rehabilitation and modernization.

EDWARD D. MARCHAND, E.I.T.
Project Engineer

Bachelor of Science in Mechanical Engineering
1983 - University of Lowell - Lowell, MA

Engineer in Training - State of Massachusetts

PROFESSIONAL EXPERIENCE

1986 - Present Panitsas Associates, Inc. - Boston, MA

Design Engineer: Responsible for all phases of design for heating, ventilating, air conditioning, plumbing and fire protection systems for a wide variety of buildings. Projects include small and mid-size office buildings, multiple unit housing, manufacturing facilities and dining facilities.

1983 - 1986 D. Baugh & Associates, Inc. - Boston, MA
Architects and Consulting Engineers

Associate Engineer: Responsible for a wide range of engineering responsibilities including design of HVAC and plumbing systems, coordination, surveying, resident engineer, and site design.

VERNE G. NORMAN ASSOCIATES, INC.

VERNE G. NORMAN ASSOCIATES, INC. is a firm of Electrical Engineers and lighting consultants offering a creative design approach to the complexities of contemporary construction projects, with special and extensive experience in services to Architects, Developers, and Contractors.

Our firm's facilities and capabilities include design of the electrical services for all building classifications. The construction value of projects for which we have been responsible exceeds $100,000,000 and the scope of work has varied from small remodeling projects to multi-building complexes.

VERNE G. NORMAN ASSOCIATES, INC. was founded in 1962 as a sole proprietorship and was incorporated in 1968.

Our drafting department is equipped with a computer-aided drafting work center (AUTO CAD System), which enables us to produce most of our drawings by computer.

Specifications are produced with the aid of Word Processing Software.

This complete system of computers allows us to provide more efficient and accurate electrical engineering services.

AWARDS

1983 *Progressive Architecture*
Design Award for Tufts University Chemistry Laboratory with The Architects Collaborative, Cambridge, MA

1968 HUD Merit Award
For design excellence on Bowdoin Subway Station of Massachusetts Bay Transportation Authority with Sert-Jackson Associates, Cambridge, MA

1968 HUD Award for Design Excellence
Young Men's Christian Association, Boston, Massachusetts with The Architects Collaborative, Cambridge, MA.

1975 *Progressive Architecture*
Design Award for Fanueil Hall Marketplace with Benjamin Thompson & Associates, Inc. of Cambridge, MA.

1980 Lighting Design Award
Coolidge Hall, Harvard University, Illumination Engineering Society.

1981 Boston Society of Architects
Excellence in Architecture Award for Keystone Building with Strekalovsky & Hoit.

1986 Governor's Design Award
Market Mills Visitors Center

COMMITTEES

1970 Consulting Engineers Council Committee for project selection for engineering project of the year to be entered into national competition.

1972 Publication *Electrical Construction and Maintenance* National Electrical Code evaluation panel.

1977 Prepared Energy Conversation Code on lighting for the Commonwealth of Massachusetts Lighting Standards Committee.

1980 Massachusetts Lighting Standards Committee.

PRINCIPALS

Verne G. Norman, P.E.
15 Whitney Lane
Plymouth, MA 02360

Massachusetts University
Franklin Institute

National Society of Professional Engineers
Mass. Society of Professional Engineers
The Construction Specifications Institute

Frederick P. Goff, P.E.
Boot Pond Road
Plymouth, MA 02360

Coyne Electrical & Technical School
U.S. Army Signal School
Franklin Institute
Boston University Engineering Enhancement Courses
Northeastern University Engineering Enhancement Courses

Illumination Engineers Society

John C. Howard, A.E.E.
15 Elizabeth Drive
Raynham, MA 02767-1502

Wentworth Institute, AEE
Northeastern University, BSIT

A. M. FOGERTY & ASSOCIATES, INC.

A. M. FOGARTY & ASSOCIATES, INC. is a company which specializes in construction estimating and specification writing. We work for Owners, Architects, Engineers, Contractors, and Sub-contractors.

Some of the services we provide are: Budget, Preliminary, Design Development, and Final Cost Estimates; also Quantity Surveys, Value Engineering, Change Order Negotiation, Insurance Claim Estimating, Specification Writing and Review. We offer computerized services, which enables us to perform cost estimates quickly, accurately, with the added capability of making changes instantly. Estimating accuracy depends upon experienced analysis of cost factors such as job location, site conditions, weather, trade disputes, etc. To provide this accuracy, we do not depend upon the computer for such cost information: this is determined by our staff, which enables us to continue to provide the high quality service that our clients have come to expect from A. M. Fogarty & Associates, Inc.

We work on all types of construction projects, such as Federal, Municipal, and local governmental building types; also in the private building industry from single family residences to multi-family, commercial light and heavy industry, medical facilities, schools, parking facilities, substations, treatment plants, etc. The work includes renovations and additions to existing facilities as well as new construction. Since 1972, A. M. Fogarty & Associates, Inc. has estimated more that two billion dollars worth of construction work.

We work with sub-contractors in preparing cost estimates on a variety of projects which have been bid in the past several years.

A. M. Fogarty & Associates is operated by personnel well oriented in all phases of the construction industry. It is not uncommon for people in this field to lack practical experience apart from estimating. However, Mr. Fogarty spent ten years as a laborer, carpenter, foreman, and superintendent on projects throughout New England, the East Coast to Florida and Mississippi, the Bahamas, Puerto Rico, Virgin Islands, Greenland, Labrador, Canada, and the Azores. For the past fourteen years, Mr. Fogarty has been a professional Cost Consultant and Specification Writer. He is a graduate of Northeastern University with a degree in Civil Engineering.

GOLDBERG-ZOINO & ASSOCIATES

Since 1964, GOLDBERG-ZOINO & ASSOCIATES, INC. has operated in the forefront of consulting engineering for the investigation and resolution of a wide variety of ground-related issues. In the conduct of this work, GZA is committed to providing responsive service, high-quality performance, and state-of-the-art technical solutions to public agencies, other design professionals, owners, developers, and contractors.

GZA has completed over 5,000 projects in conditions varying from the glacial deposits of New England to the volcanic rock of Latin America. Our large staff includes specialists in the engineering and geology of varied soil and rock conditions. Their expertise is easily exchanged or transferred, enabling us to respond to varied project types and demanding schedules.

Our comprehensive project services include: program development; geological/site reconnaissance; subsurface explorations; field supervision; laboratory analysis; data synthesis; engineering analysis; design; specifications; consultation; construction monitoring; research.

Surprises during construction mean increased costs. And belated discovery of adverse ground conditions can be a very costly surprise, causing delays for re-evaluation, redesign, and modification of construction methods. If critical conditions are never discovered, architectural and structural damage can result, along with the related increased costs for remedial action or operational inefficiency.

Defensive Measures: Because underground conditions can vary considerably even within small areas, risk is inherent in all construction. One of the best defenses to minimize risk is appropriate subsurface investigation and analysis by skilled geotechnical engineers and geologists.

Cost Benefits: While no amount of investigation can entirely eliminate risk, every dollar spent on geotechnical investigation and engineering can help owners and developers to avoid unexpected costs; assist architects and engineers in developing appropriate designs; and enable contractors to be more cost efficient.

Risk Management: We evaluate project engineering data both in terms of the level of risk and of the comparative costs of the geotechnical options open to our clients, and assist them in comparing the appropriate alternatives for their specific needs.

Team Orientation: We recognize that development of the built environment is a cooperative process. Whether working for owners, contractors, or as part of design teams, GZA's professionals are responsive to the timetables and needs of our clients.

Technical Depth: GZA has completed over 10,000 projects in conditions varying from the glacial deposits of New England to the volcanic rock of Latin America. Each of our offices is staffed with people having a broad range of experience and abilities, enabling the firm to provide comprehensive and integrated services throughout project planning, design, construction, and performance.

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